Welding Technician, Advanced Level

Levels: Grades 11-12 Units of Credit: 1 Year (1.0) CIP Code: 480508

Prerequisite: Welding Technician, Entry Level

COURSE DESCRIPTION

Students will learn more advanced skills in the welding processes that will prepare them to apply technical knowledge and skill in the workplace and in project construction. This course is based on the American Welding Society (AWS) task list. (The standards for Welding Technician, Advanced Level are listed as numbers 10 through 14. For test reporting purposes for the skill certification test they will be reported as standards 01 through 05.)

CORE STANDARDS, OBJECTIVES, AND INDICATORS

STANDARD 480508-10	Student will use flux cored arc welding processes. (01)
480508-1001	Student will perform safety inspections of equipment and accessories.
480508-1002	Student will set up for flux core arc welding operations on plain carbon steel.
480508-1003	Student will operate flux core arc welding equipment.
480508-1004	Student will make fillet welds, flat position, on plain carbon steel.
480508-1005	Student will make groove welds, flat position, on plain carbon steel.
STANDARD 480508-11	Student will use gas tungsten arc welding processes. (02)
_	Student will use gas tungsten arc welding processes. (02) Student will perform safety inspections of equipment and accessories.
480508-11	
480508-11 480508-1101	Student will perform safety inspections of equipment and accessories.
480508-11 480508-1101 480508-1102	Student will perform safety inspections of equipment and accessories. Student will set up for gas tungsten arc welding operations on plain carbon steel.

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STANDARD 480508-12	Student will use air carbon arc cutting processes. (03)
480508-1201	Student will perform safety inspections of equipment and accessories.
480508-1202	Student will set up for air carbon arc cutting operations on plain carbon steel.
480508-1203	Student will operate air carbon arc cutting equipment.
480508-1204	Student will perform straight cutting operations on plain carbon steel.
480508-1205	Student will perform shape-cutting operations on plain carbon steel.
480508-1206	Student will perform bevel-cutting operations on plain carbon steel.
STANDARD 480508-13	Student will use plasma arc cutting processes. (04)
480508-1301	Student will perform safety inspections of equipment and accessories.
480508-1302	Student will set up for plasma arc cutting operations on plain carbon steel.
480508-1303	Student will operate plasma arc cutting equipment.
480508-1304	Student will perform straight cutting operations on plain carbon steel.
480508-1305	Student will perform shape-cutting operations on plain carbon steel.
480508-1306	Student will perform bevel-cutting operations on plain carbon steel.
STANDARD 480508-14	Student will understand and use employment skills. (05)
480508-1401	Student will develop a list of work standards to follow at school and on the job.
480508-1402	Student will evaluate your personal ethics against acceptable workplace ethics.
480508-1403	Student will build a job search network and find job leads.
480508-1404	Student will write a resume and create a job portfolio
480508-1405	Student will complete a job application.
480508-1406	Student will write a business letter and memo.
480508-1407	Student will participate in an actual or simulated job interview.

^{*} Skills USA-VICA PDP requirements - optional but recommended

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